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In the Claims:

1. (Amended) A composition comprising:

a) an electrode comprising:

i) a self-assembled monolayer comprising conductive oligomers; and

ii) a capture probe;

b) a target sequence comprising a first portion that is capable of hybridizing to said capture probe, and a second portion that does not hybridize to said capture probe and comprises at least one covalently attached electron transfer moiety (ETM).

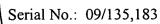
2. (Amended) A composition comprising:

a) an electrode comprising:

- i) a self-assembled monolayer comprising conductive oligomers; and
- ii) a capture probe;
- b) a label probe comprising a first portion that is capable of hybridizing to a component of an assay complex, and a second portion comprising a recruitment linker that does not hybridize to a component of [an] <u>assay</u> complex and comprises at least one covalently attached electron transfer moiety (ETM).

11. (Amended) A method of detecting a target nucleic acid sequence in a test sample comprising:

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a) [attaching] forming a hybridization complex including said target sequence and a capture probe; wherein said capture probe is on [to] an electrode comprising a <u>self-assembled</u> monolayer [of] <u>comprising</u> conductive oligomers;

b) directly or indirectly attaching at least one label probe to said target sequence to form an assay complex, wherein said label probe comprises a first portion capable of hybridizing to a component of said assay complex, and a second portion comprising a recruitment linker that does not hybridize to a component of said assay complex and comprises at least one covalently attached electron transfer moiety (ETM); and c) detecting the presence of said ETM using said electrode.

Please add the following new claims:

--20. A composition according to claim 2 wherein said second portion is not nucleic acid.

- 21. A composition according to claim 20 wherein said second portion is a metallocene polymer.
- 22. A composition according to claim 21 wherein said metallocene polymer is a ferrocene polymer.--

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